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Chapter 3 General Information Input

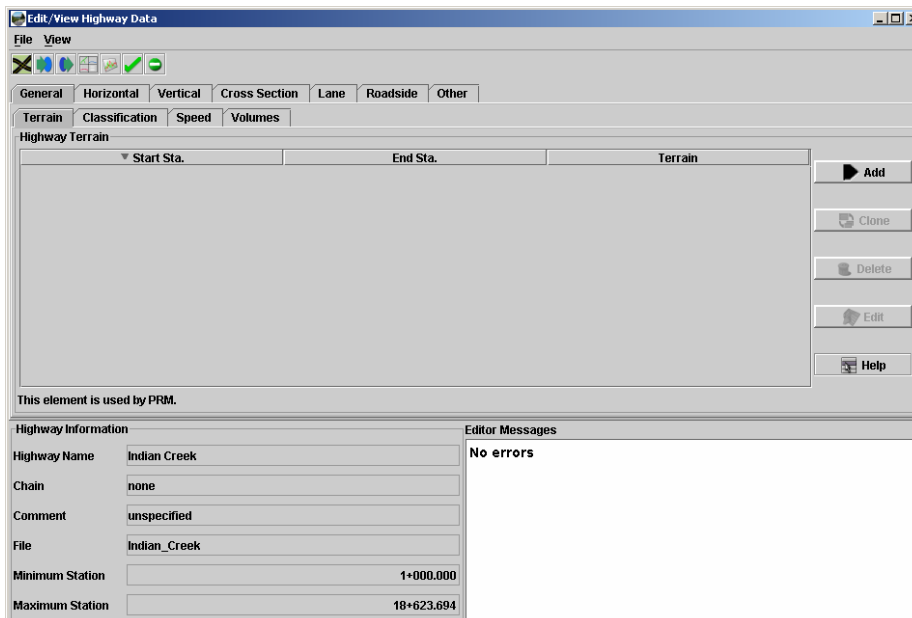
From the General Information tab in the Edit/Highway Data dialog box the following data may be set:

- Terrain
- Roadway Classification
- Design Speed
- 85th Percentile Speed
- Posted Speed
- AADVT
- Design Hourly Volume
- Peak Hourly Volume

The following workflows will guide the user on how to input each set of data using IHSDM. The title of the workflow will also indicate the modules that use that data in parenthesis. Therefore, if the user does not want a certain module, they will not waste time importing data that is not needed.

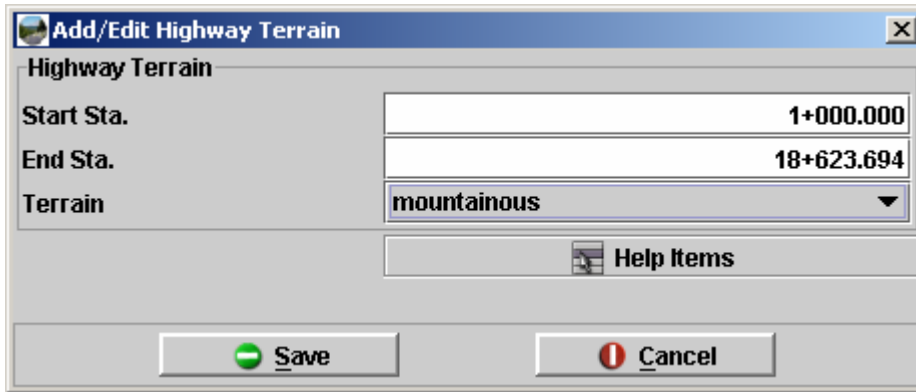
Workflow 1: Terrain Data (PRM)

1. *Pick the Edit/View Highway Data button  while in the Main IHSDM Dialog box. This dialog box is shown in step 16 of [workflow 2 in chapter 2](#).*
2. *Click on the General>Terrain Tabs and the following dialog box will appear:*



The screenshot shows the 'Edit/View Highway Data' dialog box with the 'Terrain' tab selected. The 'Highway Terrain' section contains a table with columns 'Start Sta.', 'End Sta.', and 'Terrain'. To the right of the table are buttons for 'Add', 'Clone', 'Delete', 'Edit', and 'Help'. Below the table, a message states 'This element is used by PRM.' The 'Highway Information' section at the bottom includes fields for 'Highway Name' (Indian Creek), 'Chain' (none), 'Comment' (unspecified), 'File' (Indian_Creek), 'Minimum Station' (1+000.000), and 'Maximum Station' (18+623.694). The 'Editor Messages' section on the right shows 'No errors'.

3. *Pick the Add button at the right of the dialog box to get the following dialog box:*

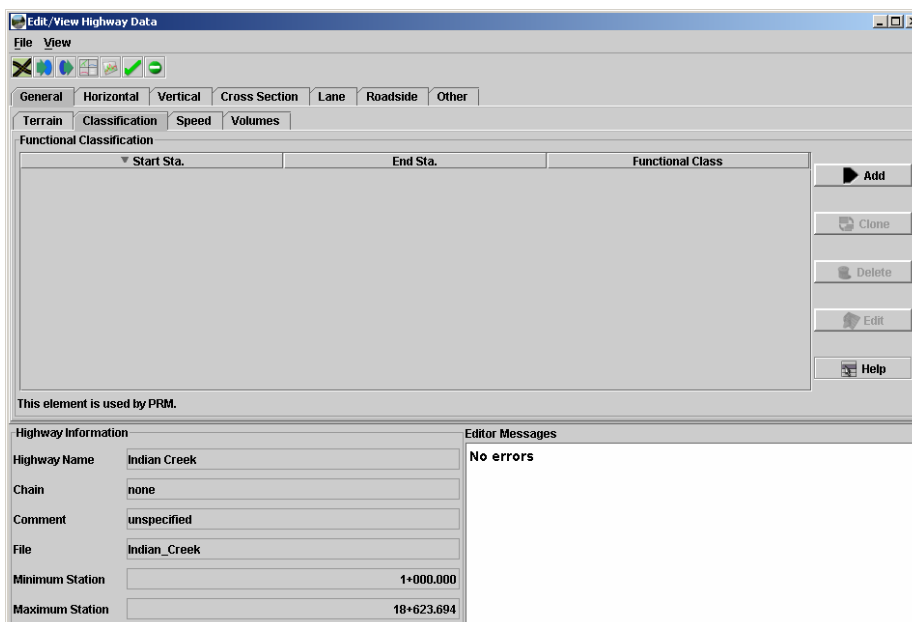


The dialog box is titled "Add/Edit Highway Terrain". It contains three input fields: "Start Sta." with the value "1+000.000", "End Sta." with the value "18+623.694", and "Terrain" with a dropdown menu showing "mountainous". Below these fields is a "Help Items" button. At the bottom are "Save" and "Cancel" buttons.

Fill in the proper information and pick Save. Notice that IHSDM filled the fields with the beginning and ending stations. If the terrain changes within the project, additional lines can be added by simply picking the add button again.

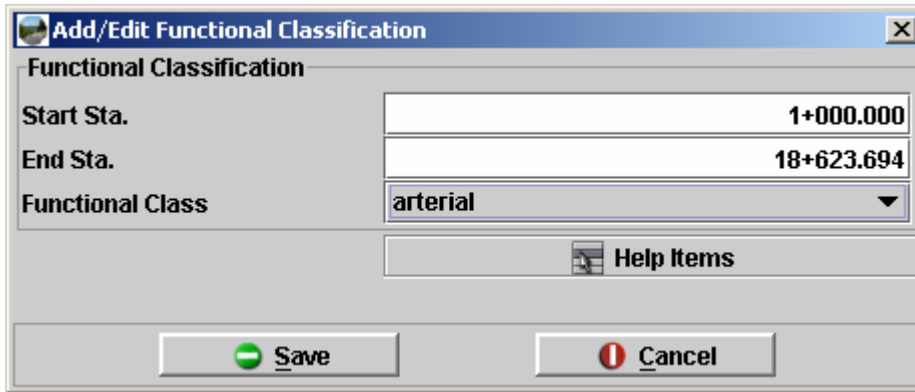
Workflow 2: Classification data (PRM)

1. Click on the General>Classification Tabs of the Edit/View Highway Data dialog box to get the following dialog box:



The dialog box is titled "Edit/View Highway Data". It has a menu bar with "File" and "View". Below the menu bar are tabs for "General", "Horizontal", "Vertical", "Cross Section", "Lane", "Roadside", and "Other". The "General" tab is selected, and within it, the "Classification" sub-tab is active. The main area is titled "Functional Classification" and contains a table with columns "Start Sta.", "End Sta.", and "Functional Class". To the right of the table are buttons: "Add", "Clone", "Delete", "Edit", and "Help". Below the table, it says "This element is used by PRM." At the bottom, there are two sections: "Highway Information" and "Editor Messages". The "Highway Information" section contains fields for "Highway Name" (Indian Creek), "Chain" (none), "Comment" (unspecified), "File" (Indian_Creek), "Minimum Station" (1+000.000), and "Maximum Station" (18+623.694). The "Editor Messages" section shows "No errors".

2. Pick the Add button to get the following dialog box:

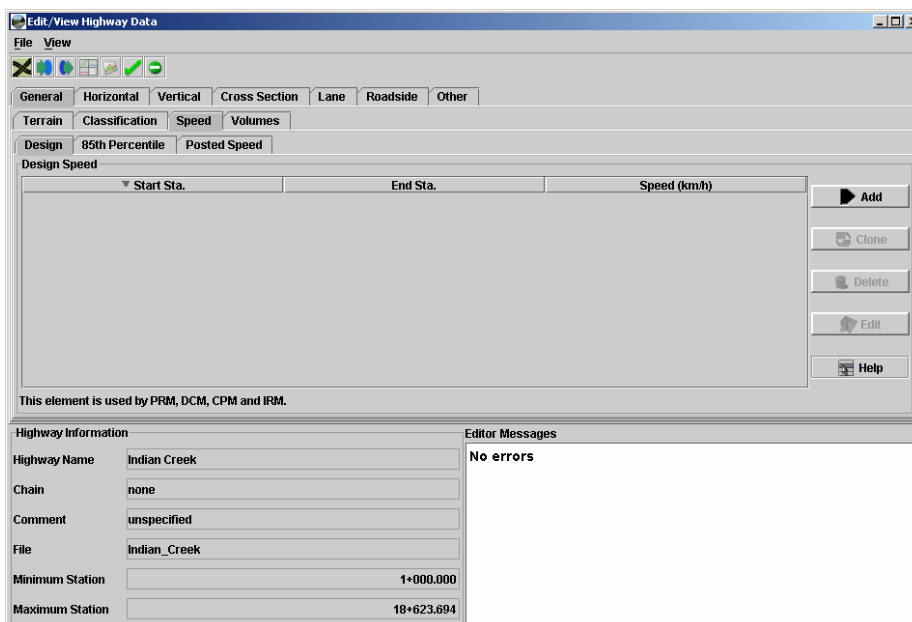


The dialog box is titled "Add/Edit Functional Classification". It contains three input fields: "Start Sta." with the value "1+000.000", "End Sta." with the value "18+623.694", and "Functional Class" with a dropdown menu showing "arterial". Below these fields is a "Help Items" button. At the bottom are "Save" and "Cancel" buttons.

Fill in the proper information and pick Save. Notice that IHSDM filled the fields with the beginning and ending stations. If the Classification changes within the project, additional lines can be added by simply picking the Add button again.

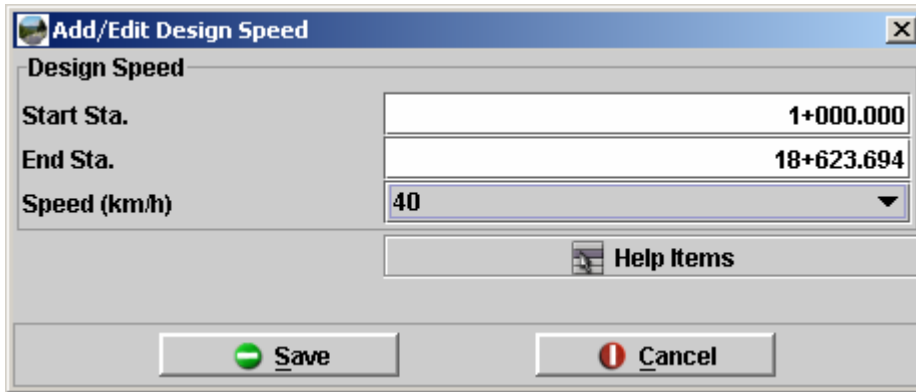
Workflow 3: Design Speed (PRM, DCM, CPM, IRM)

1. Click on the General>Speed>Design Tabs of the Edit/View Highway Data dialog box to get the following dialog box:



The dialog box is titled "Edit/View Highway Data". It has a menu bar with "File" and "View". Below the menu bar are tabs for "General", "Horizontal", "Vertical", "Cross Section", "Lane", "Roadside", and "Other". The "General" tab is selected, and within it, the "Speed" sub-tab is active. The "Design Speed" section contains a table with columns "Start Sta.", "End Sta.", and "Speed (km/h)". To the right of the table are buttons: "Add", "Clone", "Delete", "Edit", and "Help". Below the table, a note states: "This element is used by PRM, DCM, CPM and IRM." At the bottom, there is a "Highway Information" section with fields for "Highway Name" (Indian Creek), "Chain" (none), "Comment" (unspecified), "File" (Indian_Creek), "Minimum Station" (1+000.000), and "Maximum Station" (18+623.694). To the right of this section is an "Editor Messages" area showing "No errors".

2. Pick the Add button to get the following dialog box:



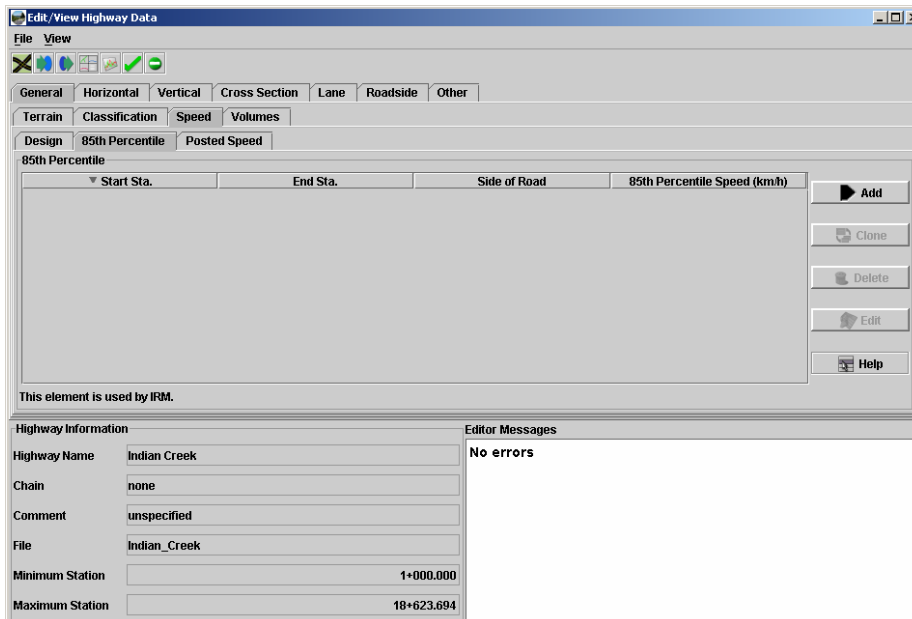
The dialog box is titled "Add/Edit Design Speed". It contains three input fields: "Start Sta." with the value "1+000.000", "End Sta." with the value "18+623.694", and "Speed (km/h)" with a dropdown menu showing "40". Below these fields is a "Help Items" button. At the bottom are "Save" and "Cancel" buttons.

Fill in the proper information and pick Save. Notice that IHSDM filled the fields with the beginning and ending stations. If the Design Speed changes within the project, additional lines can be added by simply picking the Add button again.

DCM output includes an estimated 85th percentile operating speed profile. The value the user can put into the following workflow will either be the predicted 85th percentile or an observed 85th percentile for the purposes of the Intersection Review Module.

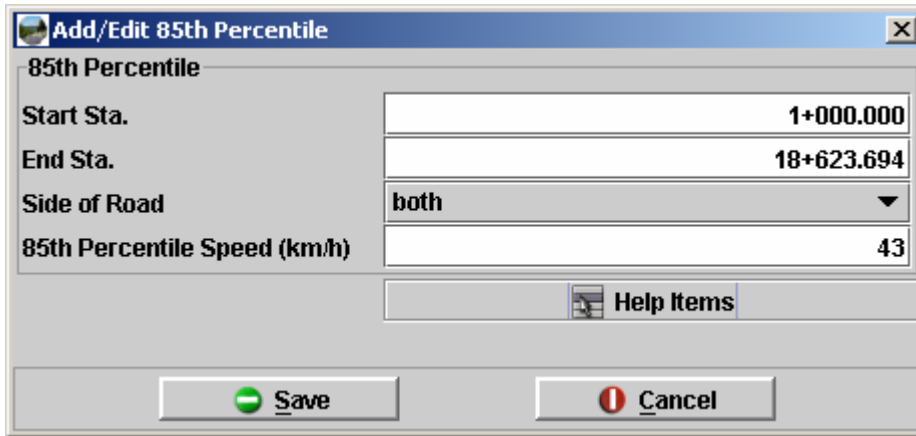
Workflow 4: 85th Percentile Speed (IRM)

1. Click on the General>Speed>85th Percentile Tabs of the Edit/View Highway Data dialog box to get the following dialog box:



The dialog box is titled "Edit/View Highway Data". It has a menu bar with "File" and "View". Below the menu bar are several tabs: "General", "Horizontal", "Vertical", "Cross Section", "Lane", "Roadside", "Other", "Terrain", "Classification", "Speed", and "Volumes". The "Speed" tab is selected, and within it, the "85th Percentile" sub-tab is active. The main area contains a table with columns: "Start Sta.", "End Sta.", "Side of Road", and "85th Percentile Speed (km/h)". To the right of the table are buttons: "Add", "Clone", "Delete", "Edit", and "Help". Below the table, it says "This element is used by IRM." At the bottom, there is a "Highway Information" section with fields for "Highway Name" (Indian Creek), "Chain" (none), "Comment" (unspecified), "File" (Indian_Creek), "Minimum Station" (1+000.000), and "Maximum Station" (18+623.694). To the right of this section is an "Editor Messages" area showing "No errors".

2. Pick the Add button to get the following dialog box:



Add/Edit 85th Percentile

85th Percentile

Start Sta. 1+000.000

End Sta. 18+623.694

Side of Road both

85th Percentile Speed (km/h) 43

Help Items

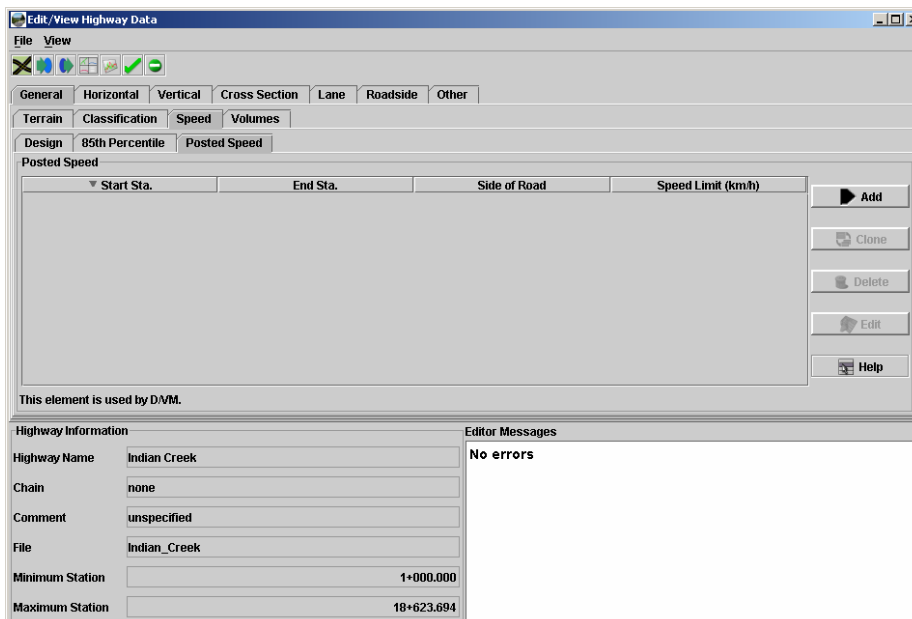
Save Cancel

Fill in the proper information and pick Save. Notice that IHSDM filled the fields with the beginning and ending stations. If the 85th Percentile Speed changes within the project, additional lines can be added by simply picking the Add button again.

The following workflow is for use in the Driver/Vehicle module. The user will not need to add any information to the Posted Speed dialog box until this module is available.

Workflow 5: Posted Speed (D/VM)

1. Click on the General>Speed>Posted Speed Tabs of the Edit/View Highway Data dialog box to get the following dialog box:



Edit/View Highway Data

File View

General Horizontal Vertical Cross Section Lane Roadside Other

Terrain Classification Speed Volumes

Design 85th Percentile Posted Speed

Posted Speed

| Start Sta. | End Sta. | Side of Road | Speed Limit (km/h) |
|------------|----------|--------------|--------------------|
| | | | |

Add Clone Delete Edit Help

This element is used by D/VM.

Highway Information

Highway Name Indian Creek

Chain none

Comment unspecified

File Indian_Creek

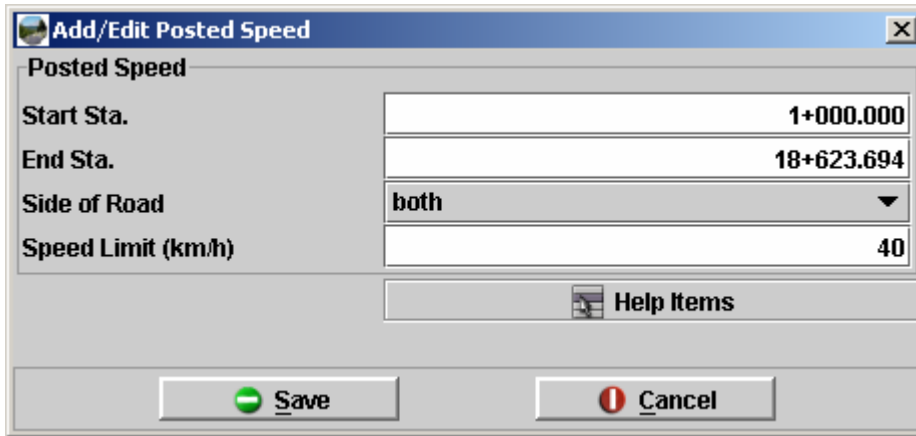
Minimum Station 1+000.000

Maximum Station 18+623.694

Editor Messages

No errors

2. Pick the Add button to get the following dialog box:



Add/Edit Posted Speed

Posted Speed

Start Sta. 1+000.000

End Sta. 18+623.694

Side of Road both

Speed Limit (km/h) 40

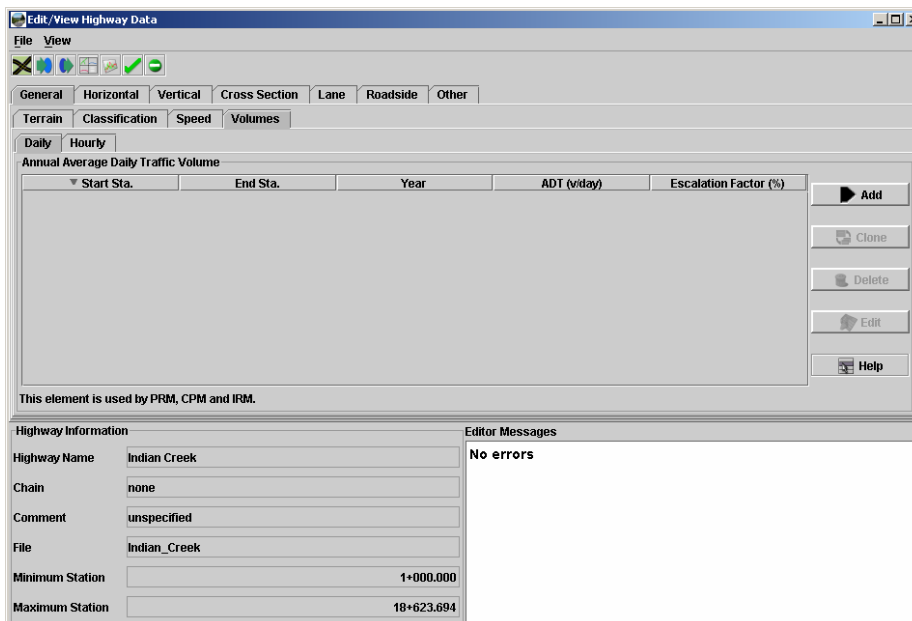
Help Items

Save Cancel

Fill in the proper information and pick Save. Notice that IHSDM filled the fields with the beginning and ending stations. If the Posted Speed changes within the project, additional lines can be added by simply picking the Add button again.

Workflow 6: AADTV (PRM, CPM, IRM)

1. Click on the General>Volumes>Daily Tabs of the Edit/View Highway Data dialog box to get the following dialog box:



Edit/View Highway Data

File View

General Horizontal Vertical Cross Section Lane Roadside Other

Terrain Classification Speed Volumes

Daily Hourly

Annual Average Daily Traffic Volume

| Start Sta. | End Sta. | Year | ADT (v/day) | Escalation Factor (%) |
|------------|----------|------|-------------|-----------------------|
| Add | | | | |
| Clone | | | | |
| Delete | | | | |
| Edit | | | | |
| Help | | | | |

This element is used by PRM, CPM and IRM.

Highway Information

Highway Name Indian Creek

Chain none

Comment unspecified

File Indian_Creek

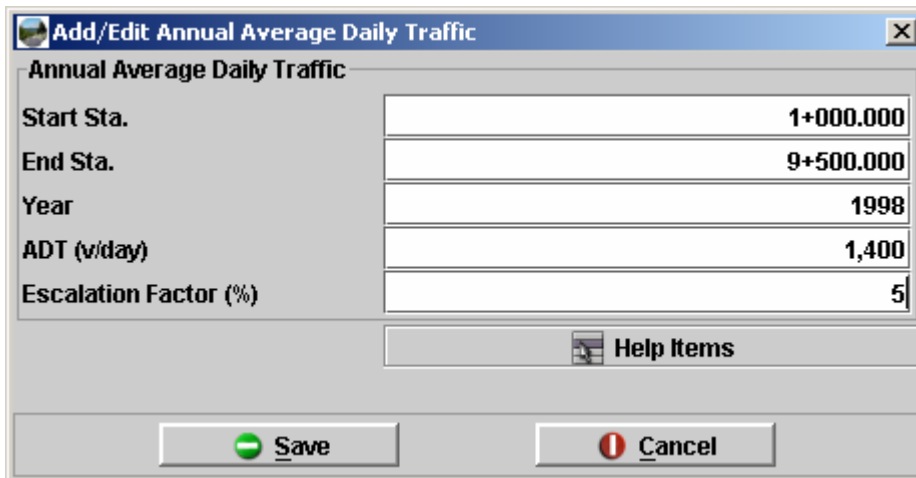
Minimum Station 1+000.000

Maximum Station 18+623.694

Editor Messages

No errors

2. Pick the Add button to get the following dialog box:



Add/Edit Annual Average Daily Traffic

Annual Average Daily Traffic

Start Sta. 1+000.000

End Sta. 9+500.000

Year 1998

ADT (v/day) 1,400

Escalation Factor (%) 5

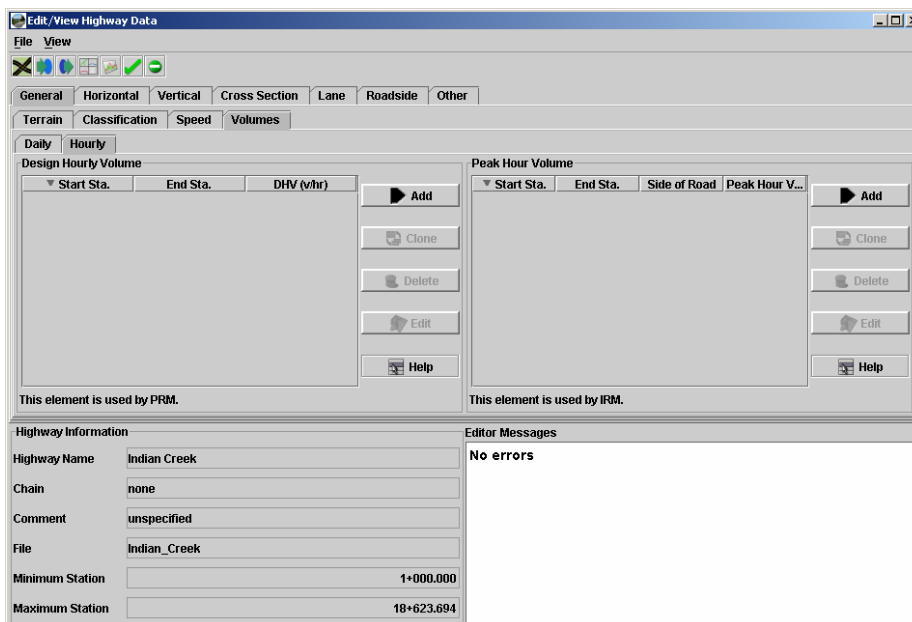
Help Items

Save Cancel

Fill in the proper information and pick Save. If the AADVT changes within the project, additional lines can be added by simply picking the Add button again.

Workflow 7: Design and Peak Hour Volumes (PRM, TAM, and IRM [PHV])

1. Click on the General>Volumes>Hourly Tabs of the Edit/View Highway Data dialog box to get the following dialog box:



Edit/View Highway Data

File View

General Horizontal Vertical Cross Section Lane Roadside Other

Terrain Classification Speed Volumes

Daily Hourly

Design Hourly Volume

| Start Sta. | End Sta. | DHV (v/hr) | |
|------------|----------|------------|--------|
| | | | Add |
| | | | Clone |
| | | | Delete |
| | | | Edit |
| | | | Help |

This element is used by PRM.

Peak Hour Volume

| Start Sta. | End Sta. | Side of Road | Peak Hour V... | |
|------------|----------|--------------|----------------|--------|
| | | | | Add |
| | | | | Clone |
| | | | | Delete |
| | | | | Edit |
| | | | | Help |

This element is used by IRM.

Highway Information

Highway Name Indian Creek

Chain none

Comment unspecified

File Indian_Creek

Minimum Station 1+000.000

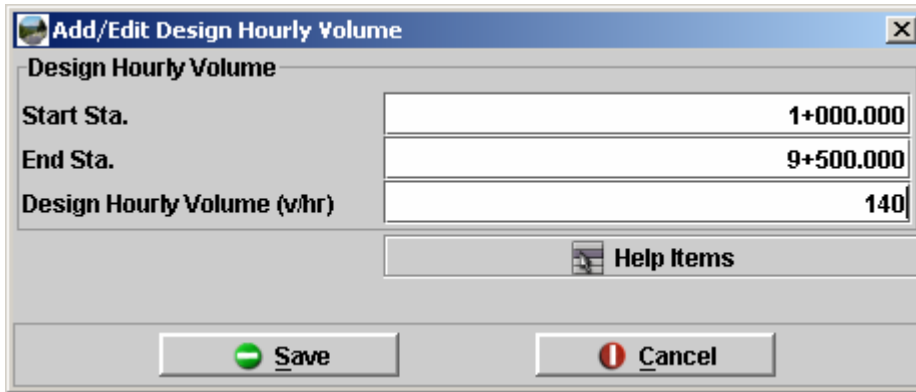
Maximum Station 18+623.694

Editor Messages

No errors

Notice that this dialog box has two sections. Design Hourly Volume and Peak Hour Volume.

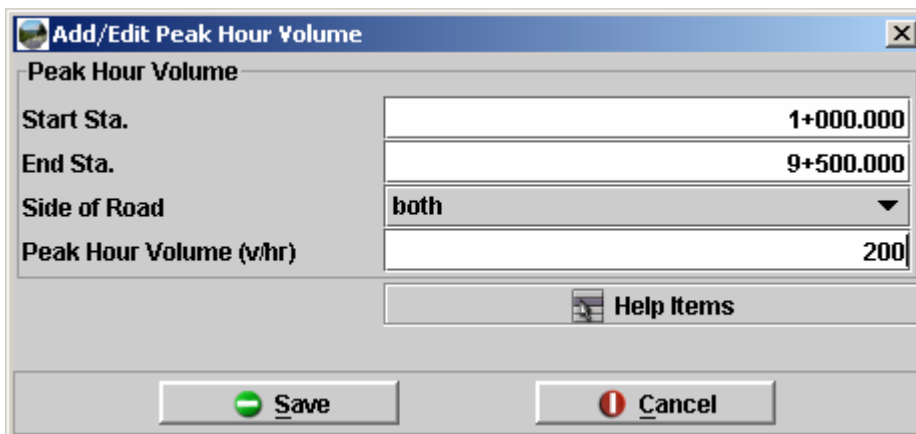
2. Pick the Add button in the Design Hourly Volume section to get the following dialog box:



The dialog box is titled "Add/Edit Design Hourly Volume". It contains three input fields: "Start Sta." with the value "1+000.000", "End Sta." with the value "9+500.000", and "Design Hourly Volume (v/hr)" with the value "140". Below these fields is a "Help Items" button. At the bottom are "Save" and "Cancel" buttons.

| | |
|-----------------------------|-----------|
| Start Sta. | 1+000.000 |
| End Sta. | 9+500.000 |
| Design Hourly Volume (v/hr) | 140 |

3. Fill in the proper information and pick Save. If the Design Hourly Volume changes within the project, additional lines can be added by simply picking the Add button again.
4. Pick the Add button in the Peak Hour Volume to get the following dialog box:



The dialog box is titled "Add/Edit Peak Hour Volume". It contains four input fields: "Start Sta." with the value "1+000.000", "End Sta." with the value "9+500.000", "Side of Road" with a dropdown menu showing "both", and "Peak Hour Volume (v/hr)" with the value "200". Below these fields is a "Help Items" button. At the bottom are "Save" and "Cancel" buttons.

| | |
|-------------------------|-----------|
| Start Sta. | 1+000.000 |
| End Sta. | 9+500.000 |
| Side of Road | both |
| Peak Hour Volume (v/hr) | 200 |

5. Fill in the proper information and pick Save. If the Peak Hourly Volume changes within the project, additional lines can be added by simply picking the add button again.

Using an Excel file

The Excel file with the correct format for importing General Information into IHSDM is DEA.General.xls. This file can be found in:

N:\Standards\IHSDM\

or on the CFLHD web site at the following link:

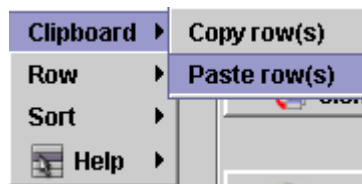
<http://www.cflhd.gov/ihsdm.cfm>

When you open this file, there is a read me worksheet along with 8 other worksheets that will be used to input all the general information. Each worksheet will describe what each variable is and what it is used

for. The following workflow will describe the process for entering this information into IHSDM.

Workflow 8: Excel Input

1. *Enter the correct data in the Excel spreadsheet.*
2. *Highlight the entered data and go to Edit>Copy.*
3. *Click on the General Tab of the Edit/View Highway Data dialog box.*
4. *Pick the corresponding tab for the data to be inserted.*
5. *Pick the Add button.*
6. *Put dummy information in the data fields. Pick the Save button. This creates a line in the Edit/View Highway Data dialog box. The user will delete this line after the correct information is imported.*
7. *With the mouse over the line just put in, right mouse click to get the following dialog box:*



8. *Choose Clipboard>Paste row(s). The information will be loaded into IHSDM.*
9. *Delete the line with the incorrect data.*



Notice that this procedure is most useful when there are more than a couple of lines of data.